

**Amendments to the Claims**

Claims 1-7, 10 and 17-47 were previously cancelled. With this amendment, also cancel claims 8-9, 11-16, and 48-69 such that claims 1-75 are now cancelled; please also add new claims 76-80, as indicated below:

Claims 1-75. Cancelled.

76. (new) A method of directing differentiation of human embryonic cells to human neuronal cells comprising:

- a. providing chemically dissociated human embryonic stem (hES) cells;
- b. aggregating the dissociated hES cells in suspension in to form embryoid bodies;
- c. dissociating the embryoid bodies to provide dissociated single embryonic cells;
- d. culturing said dissociated embryonic cells as a monolayer; and
- e. exposing said embryonic cells to at least one exogenous factor for an effective period of time to direct differentiation of said dissociated embryonic cells to neuronal cells.

Claim 77. (new) A method according to claim 76, wherein the embryoid bodies are formed in a suspension culture.

Claim 78. (new) A method according to claim 76, wherein the exogenous factor is a growth factor.

Claim 79. (new) A method according to claim 78, wherein the exogenous factor is nerve growth factor.

Claim 80. (new) A method according to claim 76, wherein the exogenous factor is retinoic acid.

Claim 81. (new) A method according to claim 76, wherein the differentiated cells have neuronal processes.